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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,034	03/04/2004	Toshiyuki Miyamoto	50212-577	1384
7590 08/08/2007 MCDERMOTT, WILL & EMERY			EXAMINER	
600 13th Street	, N.W.		DIACOU, ARI M	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			3663	
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			08/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/792,034	MIYAMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ari M. Diacou	3663				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 Ju	<u>ine 2007</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1 and 3-8 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 3-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the control of the correct and the correct of the	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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#### **DETAILED ACTION**

# Response to Arguments

1. The arguments filed 12-21-2006 are most in view of the new grounds of rejection, which has been necessitated by amendment.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - Regarding claim 1, since phase difference is really the modulus of the difference in the actual phases, the range claimed must be closed ended. ΔΦ<sub>LRA</sub>≥ ½ΔΦ<sub>T</sub>. doesn't have a specific meaning because ΔΦ<sub>LRA</sub> = ½ΔΦ<sub>T</sub>., would mean that the LRA and the transmission system (TS) were out of phase, where the LRA compensated for the chirp of the TS, while ΔΦ<sub>LRA</sub> = ΔΦ<sub>T</sub> would mean that the phase shift of the LRA added to that of the TS, thereby exacerbating the phases shift.

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 5. Claims 1, 3 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsuzaki et al. (USP No. 2002/0012161).
  - Regarding claims 1, 3 and 8, Tsuzaki discloses [¶ 0048] and figure 1. In [¶ 0012]
     [¶ 0038] [¶ 0051], Tsuzaki discloses that in LRA's one has to be careful of SPM,
     thereby suggesting that the phase shifts of the LRA and TS cancel each other.

# Claim Rejections - 35 USC § 103

- 6. Claims 4, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fermann in view of Agrawal and Stolen as applied to claim 1 above. Further, it would have been obvious to one having ordinary skill in the art at the time the invention was made to decrease attenuation, increase the absolute value of the negative dispersion, and increase the nonlinear coefficient as suggested by Fermann and Stolen to achieve a desired result. It is well-settled that optimizing a result effective variable is well within the expected ability of a person of ordinary skill in the subject art. In re

  Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980), In re Aller, 220 F.2d 454, 105 USPQ 233 (CCPA 1955).
- 7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuzaki as applied to claim 1 above, and further in view of Akasaka (USPAP No. 2003/0058524). The combination of Tsuzaki disclose the invention with all the

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limitations of claim 1, but is silent on the inherent OH<sup>-</sup> transmission minima of silica fiber at ~1390 nm and necessary compensation. Akasaka teaches to compensate for this loss [¶ 0013]. Therefore, it would have been obvious to one skilled in the art (e.g. an optical engineer) at the time the invention was made, to choose fiber parameters to compensate for the loss, for the advantage of cost reduction due to decreased attenuation.

# Conclusion

- 8. While patent drawings are not drawn to scale, relationships clearly shown in the drawings of a reference patent cannot be disregarded in determining the patentability of claims. See <u>In re Mraz</u>, 59 CCPA 866, 455 F.2d 1069, 173 USPQ 25 (1972).
- 9. The references made herein are done so for the convenience of the applicant.

  They are in no way intended to be limiting. The prior art should be considered in its entirety.
- 10. The prior art which is cited but not relied upon is considered pertinent to applicant's disclosure.
- 11. As to limitations which are considered to be inherent in a reference, note the case law of In re Ludtke, 169 U.S.P.Q. 563; In re Swinehart, 169 U.S.P.Q. 226; In re Fitzgerald, 205 U.S.P.Q. 594; In re Best et al, 195 U.S.P.Q. 430; and In re Brown, 173 U.S.P.Q. 685, 688.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ari M. Diacou whose telephone number is (571) 272-5591. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on (571) 272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ari M. Diacou/ 8/1/2007

SUPERVISORY PATENT EXAMINER